

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification⁶:

G01V 1/145, G01M 7/08

A1

(11) International Publication Number:

WO 98/26311

(43) International Publication Date:

18 June 1998 (18.06.98)

(21) International Application Number: PCT/EP97/05417

(22) International Filing Date: 26 September 1997 (26.09.97)

(30) Priority Data:

96309084.0 12 December 1996 (12.12.96) EP

(34) Countries for which the regional or international application was filed: GB et al.

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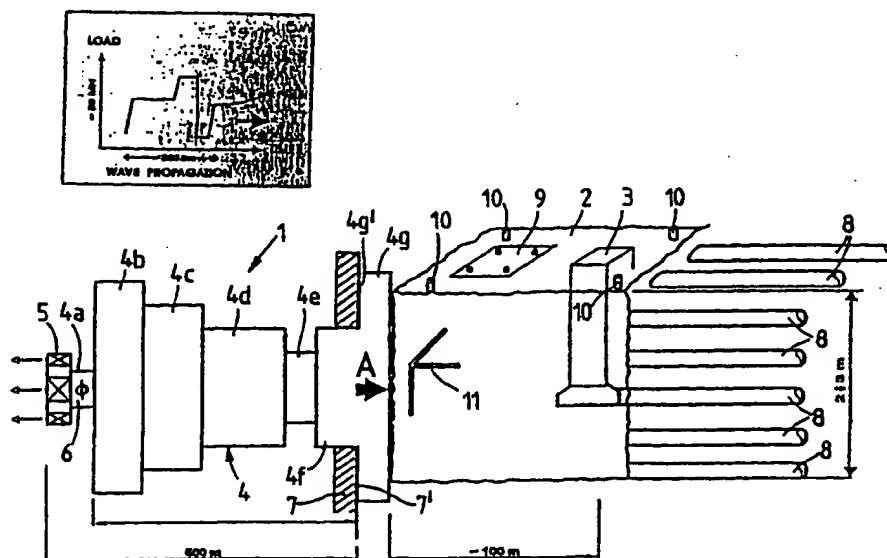
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(81) Designated States: CA, JP, NO, US, European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE).

Published

With international search report.

(54) Title: SEISMIC WAVE SIMULATION APPARATUS



(57) Abstract

Seismic wave simulation apparatus (1) includes an elastic energy accumulator (4) shaped to induce a simulated seismic wave of known form in a geological specimen (2) in which is embedded the foundation (3) of a building. A hydraulic actuator (5) is used to preload the accumulator (4) in a direction reverse to arrow A and an explosive bolt (6) is exploded, thereby releasing the energy of the accumulator (4) as a seismic wave through the geological specimen (2). The specimen (2) is provided with transducer bars (8) and an electrified metallic thin sheet (9) connected to a Wheatstone bridge in order to obtain various measurements.